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## Does Music Participation Impact Mental Health and Academic Performance in High School Students?

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## **Abstract**

In an increasingly competitive student culture, high school students often feel compelled to drop music programs-such as band, orchestra, and choir- assuming that it will help them focus on coursework and maintain both academic competitiveness and mental well-being. This study examines whether such assumptions are valid by evaluating the relationship between music participation, academic performance, and mental well-being. A survey of 646 students at Arcadia High School in Southern California was conducted between May 10 and June 3, 2024. Students completed three validated mental health instruments: Perceived Stress Questionnaire (PSQ), General Anxiety Disorder-7 (GAD-7), and Patient Health Questionnaire-9 (PHQ-9), assessing stress, anxiety, and depression levels. Data were also collected on each student's Grade-Point-Average (GPA), number of Advanced Placement (AP)/honors courses, and demographics. Analysis of Variance (ANOVA) was used to evaluate associations between music participation (current, past, none) and mental health or academic metrics. Of the participants, 28% were currently involved in music programs, 17% participated in the past, and 55% never participated. Students currently involved in music programs reported significantly lower depression scores (p=0.047) and had nominally lower stress and anxiety scores although statistically insignificant. Academically, current music students had higher GPAs (p<0.01) and took more AP/honors courses than peers not involved in music. No evidence from our study suggested that involvement in music programs hinders academic or emotional success; rather, it is associated with improved academic outcomes and reduced depression. The belief that students must sacrifice music to excel is not supported by this study's findings.

**Keywords:** anxiety; course rigor; depression; secondary education; stress